

2.4 Program Design Committee presents conceptual overview of how to meet the net- 100% renewable energy goal and discussion

Community Renewable Energy Board Meeting

Nov 1, 2021



How do we envision hitting the target of net-100% renewable electricity by 2030?

- Key Considerations
 - What counts as a “renewable energy resource” for purposes of the Community Renewable Energy Program (“program”)?
 - How much of Rocky Mountain Power’s “standard delivery” projected energy mix would qualify under this definition in the year 2030?
 - How would the program account for qualifying standard delivery renewable electricity?
 - Bundled Renewable Energy Certificates (RECs)
 - How large could the program be in 2030? (rough estimate)

Renewable Energy Resource

54-17-902 (14) (a) and (b)

(14) "Renewable energy resource" means:

(a) electric energy generated by a source that is naturally replenished and includes one or more of the following:

(i) wind;

(ii) solar photovoltaic or thermal solar technology;

(iii) a geothermal resource; or

(iv) a hydroelectric plant; or

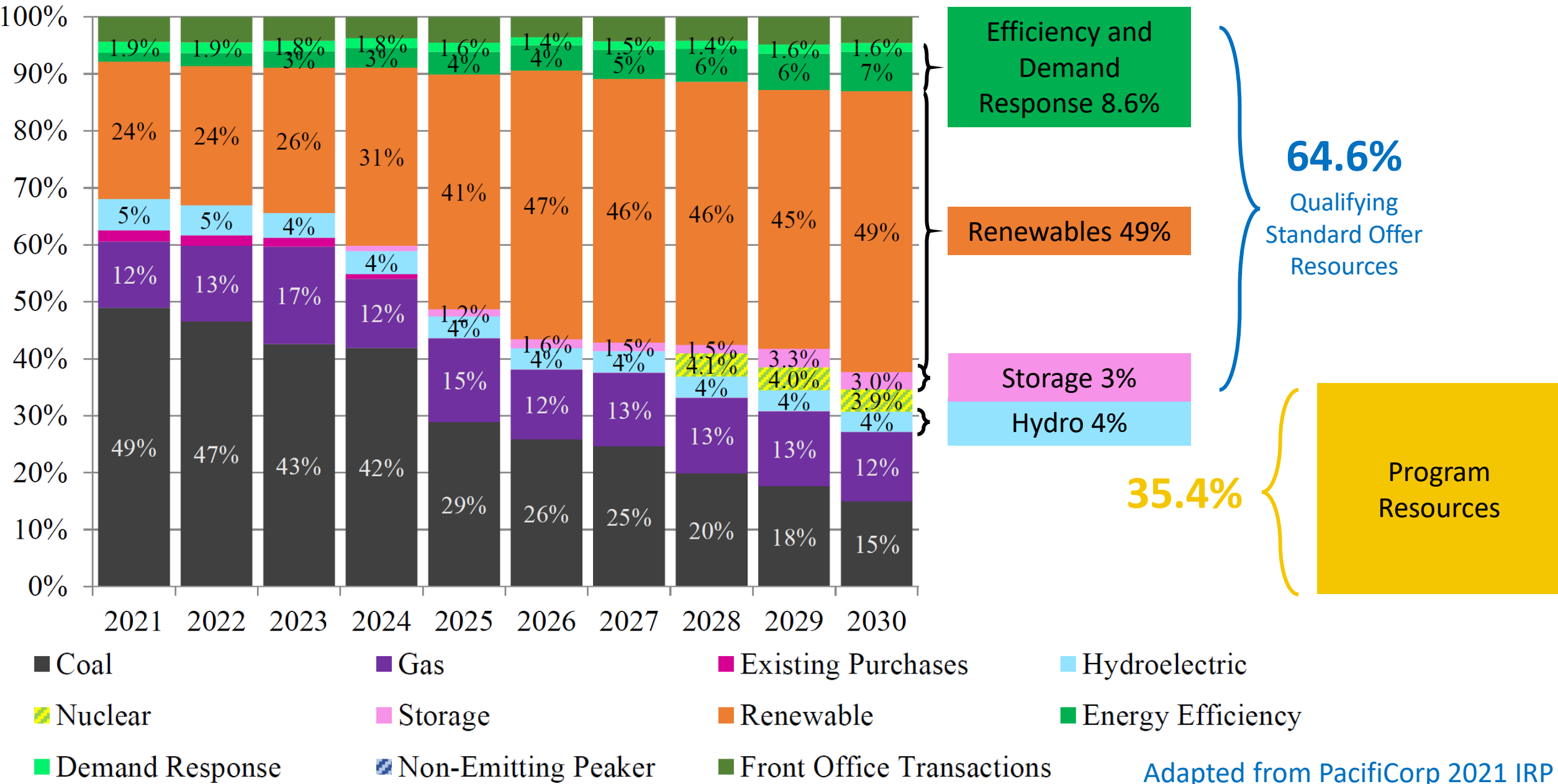
(b) use of an energy efficient and sustainable technology the commission has approved for implementation that:

(i) increases efficient energy usage;

(ii) is capable of being used for demand response; or

(iii) facilitates the use and development of renewable generation resources through electrical grid management or energy storage.

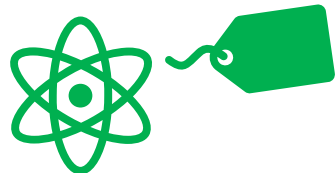
One possibility to visualize meeting the 100% commitment



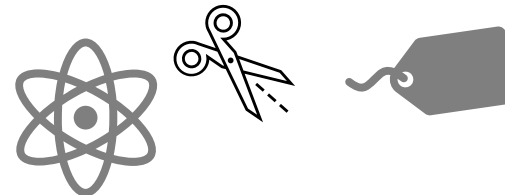
What is a Renewable Energy Certificate (REC)?

- It is an **accounting tool** whereby “retiring” a REC proves that 1 Megawatt-hour of renewable electricity was generated
- A REC can be “bundled,” meaning the person who used the electricity also retired the REC
- Or a REC can be “unbundled,” meaning one person consumed the electricity and someone else retired the REC
- Designed to allow a market for the “green attributes” of renewable electricity and prevent double-counting
- When electric energy is separated from its REC, it is called “null power”
- The owner of the REC has the exclusive right to publicly claim to be using the associated renewable energy

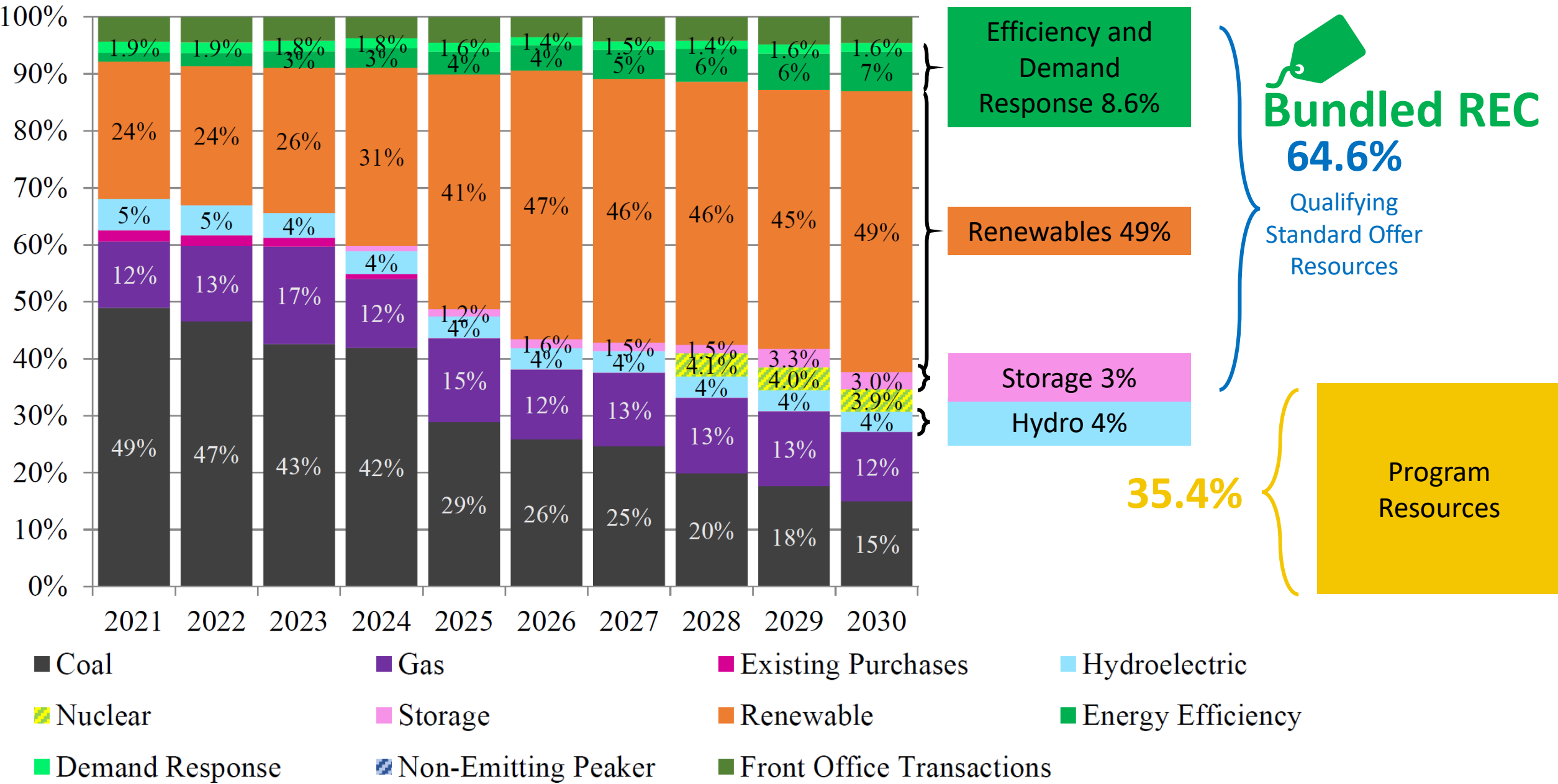
Bundled REC



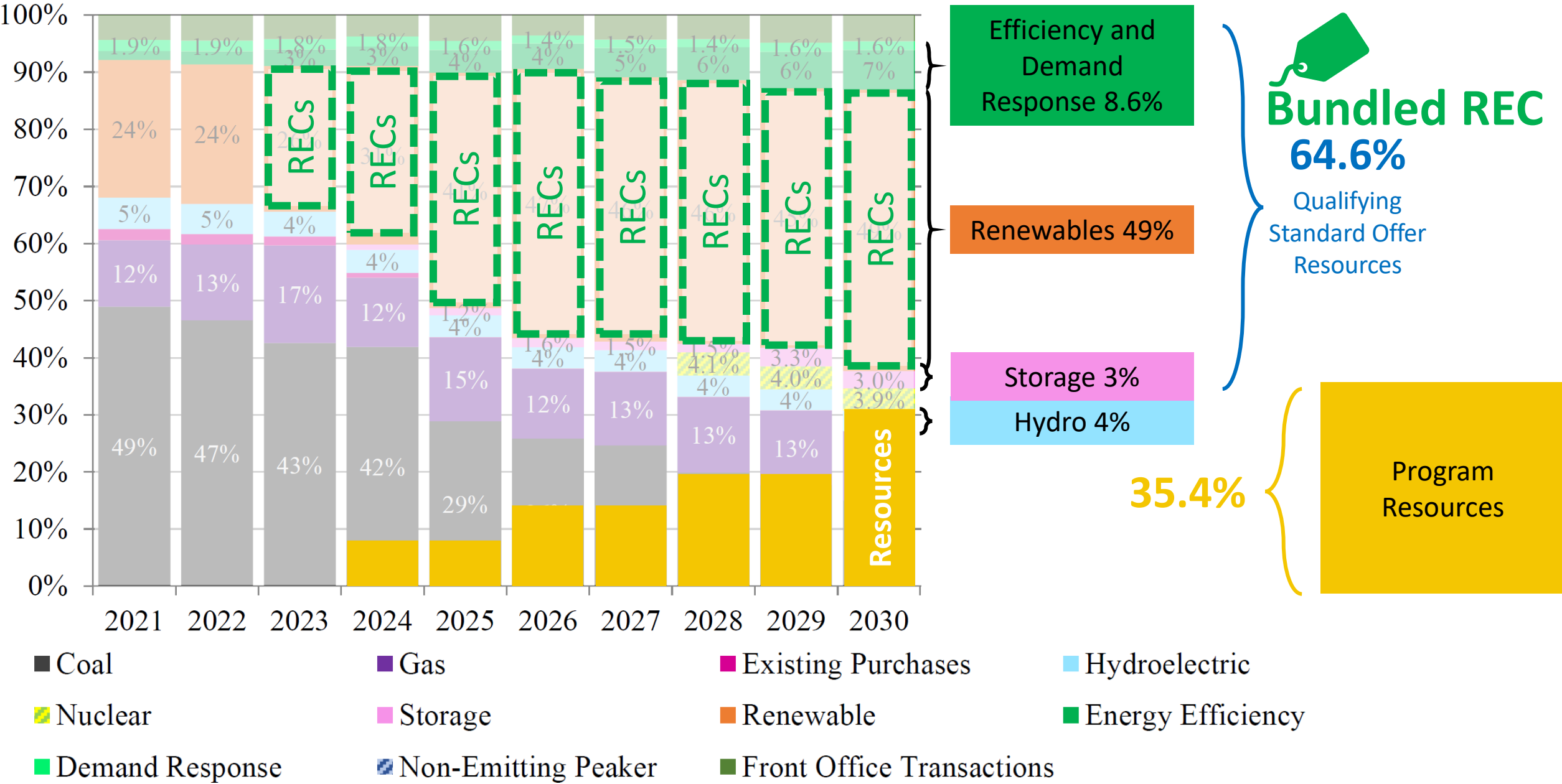
Unbundled REC



One possibility to visualize meeting the 100% commitment

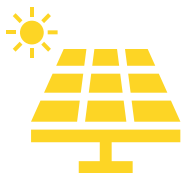


One possibility to visualize meeting the 100% commitment

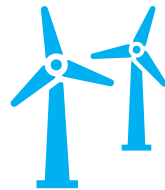


How Big Could the Program Be? (Rough Calculation)

- Eligible communities use a little over **9 million MW-hours** of electricity annually
- If electricity consumption increases at .73% annually, total eligible electricity consumption in 2030 could grow to **9.8 million MW-hours** annually
- If 50% of total eligible electric consumption participates, that means program participation in 2030 would amount to **4.9 million MW-hours** annually
- If 64.6% of participating electric consumption (3.2 million MW-hours) is satisfied through qualifying renewable energy or energy saved by efficiency or Demand Side Management (DSM), then program resources would need to supply the remaining **1.7 million MW-hours**



450 MW Southern UT Solar
2-6 Utility-Scale Solar Farms
(30.2% Capacity Factor)



200 MW Southern UT Wind
1-3 Utility-Scale Wind Farms
(29.5% Capacity Factor)



1.7 million MW-hours

2.5 Discussion and consideration of Resolution 21-19 Requesting that Millcreek Invoice for Phase 1 Anchor Payments

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Calculating Phase 1 Actual Anchor Payments

- Anchor communities replace Phase 1 Initial Payments from eligible communities to bring the Phase 1 total contributions up to \$350,000
- Ph. 1 Budget (\$350,000) – Ph.1 Initial Received (\$206,113.59) =
- **\$143,886.41 Remaining Balance**; shared proportionally by 7 Anchor Communities

Anchor Communities as Listed in Schedule 2	Anchor Phase 1 Proportionate Shares	Phase 1 Actual Anchor Payment	Due Date
Grand County	1.49%	2,146.04	1/31/2022
Summit County	7.61%	10,947.00	1/31/2022
Town of Castle Valley	.08%	108.60	11/30/2021
Moab City	1.58%	2,276.85	11/30/2021
Millcreek	13.03%	18,741.59	11/30/2021
Park City	4.77%	6,859.57	11/30/2021
Salt Lake City	71.44%	102,806.76	11/30/2021
TOTAL	100%	143,886.41	--

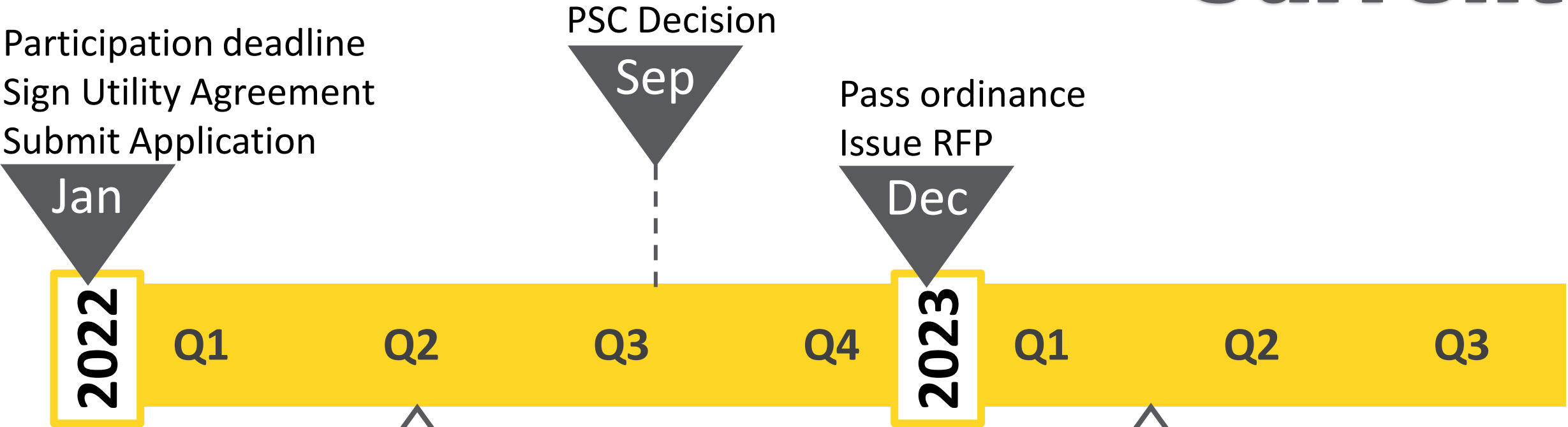
2.6 Discussion and consideration of Resolution 21-20 Changing the Participation Deadline from January 31, 2022 to May 31, 2022

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Current



Participation deadline
Sign Utility Agreement
Submit Application

Jan
PSC Decision

Pass ordinance
Issue RFP

Proposed